EPC course Outline

All class notes will be uploaded to GitHub.

https://tinyurl.com/epcCourse

- 1. Class 1: Introduction to C.
 - Syntax
 - Variable declaration

```
(int, long long int, __int128, float, double, long double, char)
```

- Variable initialization
- Value assignment
- Showing output
- Basic Operations (+, -, *, /, %)
- pre-increment, post-increment (++x , x++)
- Taking input
- Set precision
- Spacing / Indentation
- Commenting
- 2. Class 2: Conditions, Operators, In-built Math Functions
 - If-else
 - Nested If-else
 - Logical operators (&&, ||, ||)
 - Relational Operators (==, !=, >, <, >=, <=)
 - some in-built math functions sqrt(), pow(), log(), floor(), ceil()
- 3. Class 3: Loop, Time Complexity

EPC course Outline

- while loop
- do-while loop
- for loop
- nested loop
- time complexity
- 4. Class 4: Introduction to C++
 - why finally C++ not C
 - key differences between c++ and c
- 5. Class 5: Array, String, Space Complexity
 - array
 - 2D array (matrix)
 - string
 - memory taken by different typo variables

```
(int, long long int, __int128, float, double, long double, char)
```

- space complexity
- 6. Class 6: Function
 - void Function
 - return type Function
 - pass by value
 - pass by reference
- 7. Class 7: Recursion
 - Stack overflow
 - Factorial
 - Fibonacci
- 8. Class 8: Structure
- 9. Class 9: Introduction to Problem Solving

EPC course Outline 2

- Problem Solving
- Contest (Online, Onsite)
- Competitive Programming
- Online Judges (codeforces , Atcoder , Codechef , Vjudge and others . . .)
- Test Case
- EOF

Note: Total Course will be run in Dynamic way considering the progress of Level Zero.

EPC course Outline 3